C번 - Card Game

14점 | 서브태스크 | 스페셜 저지

영어

시간 제한	메모리 제한
1 초 (추가 시간 없음)	256 MB

문제

Alice and Bob recently learned about large numbers and arithmetic sums.

Both of them love numbers and playing cards, so they came up with a new card game they can play together.

They first pick an integer N, and write down one integer per card, using the integers from 1 to N exactly once.

Then, they put them down on the floor in an arbitrary order, and begin playing. For convenience, let us refer to the numbers (written on the cards) C[1], C[2], ..., C[N] from left to right.

They play the game in turn, and Alice goes first. Each person can take a card, either the left-most one or the right-most one -- and must take one.

Alice and Bob are kids, so they simply pick the card with the larger number, and take it.

Let S_A (S_B) the sum of the numbers written on the cards in Alice's (Bob's) hands, after the game ends when the last card is taken by either kid.

For instance, suppose N = 4 and C = [2, 4, 1, 3].

- Alice would first take the right-most card with number 3 on it.
- Bob would then take the left-most card with number 2 on it.
- Alice would then take the left-most card with number 4 on it.
- Bob would take the last card with number 1 on it.

Therefore, S_A = 3+4 = 7 and S_B = 2+1 = 3.

After watching Alice and Bob play this game many times, you asked yourself the following question: After choosing N and x, can you order the cards in a certain way so that $S_A - S_B = x$?

Of course, depending on the value of x, this may or may not be possible, and there may exist more than one way to arrange the cards. You want to write a program that can answer this question.

입력

The first line will contain the number of test cases, T.

For each test case, a single line will contain two integers, N and x, separated by a whitespace.

출력

For each test case, you must output "YES" or "NO" (without quotes).

If there is a way to arrange the N cards so that $S_A - S_B = x$ can be obtained, then output "YES" in the first line, followed by N integers separated by whitespace in the next line that describe the order of the N cards.

If there are many ways to achieve this, you may output any one of them.

If this is impossible, output "NO" (without quotes).

제한

- $1 \le T \le 10$

- $|x| \le (30,000)^2$ (x may be negative)

서브태스크 1 (4점)

- $2 \le N \le 10$

서브태스크 2 (10점)

- $2 \le N \le 30,000$

예제 입력 1 복사

```
5
3 1
5 1
6 -1
7 2
8 0
```

예제 출력 1 복사

```
NO
YES
2 3 5 1 4
YES
5 1 2 6 3 4
YES
1 2 3 4 5 7 6
YES
6 8 1 2 4 7 5 3
```

For Case 1, there is no way we can order the three cards [1, 2, 3] such that S_A-S_B = 1.

채점

- 예제는 채점하지 않는다.